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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3618.1-2013

Determination of acetophenone in plastic and rubber materials. Part 1: HPLC method

塑胶材料中苯乙酮的测定 第1部分：高效液相色谱法

(English Translation)

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Foreword

SN/T 3618 "plastic material acetophenone determination" is divided into two parts.

--- Part 1. High performance liquid chromatography;

--- Part 2. Gas chromatography - mass spectrometry.

This section SN/T 3618 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 3618 provisions of this part of the plastic material in the detection method of acetophenone -- High Performance Liquid Chromatography.

This section applies to the determination of the plastic material acetophenone.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis Principle 3 Acetone sample of acetophenone extraction, high performance liquid chromatography with diode array detector (HPLC-DAD) We were determined and confirmed, external standard.

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4 Reagents and materials

Unless otherwise specified, use only analytical reagent. Test water line with GB/T 6682 stipulated a water.

4.1
acetone.

4.2
acetophenone standards. CAS No. 98-86-2; purity >=98%.

4.3
acetonitrile. chromatography.

4.4
Methanol. chromatographically pure.

4.5
preparation of standard solution. Weigh accurately acetophenone standard (4.2) 0.02g (precise to 0.1mg) to 25mL volumetric flask with stopper (5.3), and dissolved in acetone (4.1) and dilute to the mark, shake, progressively diluting the concentration of 0.5mg/L, 1.0mg/L, 2.0mg/L, 5.0mg/L, 20.0mg/L, 50.0mg/L and 100.0mg/L of standard working solution, in the refrigerator freezer spare.

5 Apparatus

5.1
Microwave extractor. with teflon extraction tank.

5.2
brown volumetric flask. 25mL.

5.3
plastic head glass dropper. 2mL.

5.4
Centrifuge. 8000r/min.

5.5
High performance liquid chromatograph. with DAD detector.

5.6
Electronic balance. a sense of the amount of 0.1mg.

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